

# PATENT ABSTRACTS OF JAPAN

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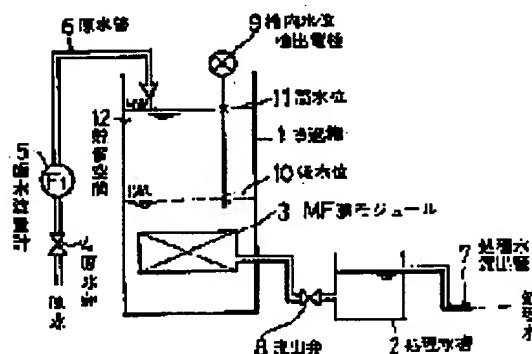
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## (54) MEMBRANE FILTRATION METHOD AND MEMBRANE FILTER

### (57)Abstract:

**PURPOSE:** To cope with variations in the inflow of raw water without requiring complicated control and expensive equipment in a membrane filtration method obtained by differences in water level by obtaining the fixed flow rate of treated water with the water level in a treating tank being changed corresponding to a change in the filtration resistance of a membrane.

**CONSTITUTION:** An MF membrane module 3 is installed in the bottom part of a filter tank 1, and a raw water storing space 12 occupies the upper part of the filter tank. The filter tank 1 whose upper part is opened is provided with a raw water pipe 6 and an in-tank water level detecting electrode 9, and an outflow pipe 7 communicating with a treated water tank 2 through the MF membrane 3 below in the upper and lower parts respectively. In the raw water pipe 6, a raw water valve 4 for controlling the inflow of raw water and a raw water flowmeter 5 are provided, and in the outflow pipe 7, an outflow valve 8 for turning on an off the outflow of treated water is provided. In this filtration method, only by opening the raw water valve 4, driving force for passing raw water through the MF membrane 3 is caused by difference in water level between the filter tank 1 and the treated water tank 2. The water level is changed from 10 to 11 with the in filtration resistance to always assure a pressure corresponding to the filtration resistance.



## LEGAL STATUS

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